**Library Management System**

You have to design a Library management system for your company. The employees can get different types of books issued from library.

There are three types of books available in the library. All the books can be issued for 7 days only.

1. Data Analytics – The late fee is Rs 5 per day.

2. Technology – The late fee is Rs 6 per day.

3. Management – The late fee is Rs 7 per day.

The application should provide “Return Book” functionality.

Assumptions –

1. Date api can be used.

2. Return date can be taken as today’s date by default.

Instructions –

For return book, the application should

1. Take input as employee details, type of book to be returned and issue date of that book.

2. Based on number of days between issue date and today’s date, if the employee is late in returning the book then calculate late fee as per the rules mentioned with type of book else late fee will be 0.

3. For the positive case when employee is not late in returning the book, print the message as “There is no late fee applicable and the book has been returned”.

4. Display the details with the following information.

· Name of Employee

· Type of Book

· Issue Date

· Return Date

· Late Fee